

I claim:

1. A craft comprising:

a superconductive material formed in a shape that when in a superconducting state is levitated by the earth's geomagnetic field.

2. The craft of Claim 1 further including:

means for motive force by directing electrical current in a direction across said superconductive material to create motion at right angles to the direction of such current by said craft.

3. The craft of Claim 1 wherein said superconductive material is in the form of a superconductive layer and further includes a lightweight thermal insulative substrate on which said superconductive layer is positioned.

4. The craft of Claim 2 wherein said superconductive material is in the form of a superconductive layer and further includes a lightweight thermal insulative substrate on which said superconductive layer is positioned.

5. The craft of Claim 3 wherein said superconductive material is in the form of a superconductive layer in the shape of a hollow sphere surrounded by said insulative substrate.

6. The craft of Claim 4 wherein said superconductive material is in the form of a superconductive layer in the shape of a hollow sphere surrounded by said insulative substrate.

7. The craft of Claim 5 further including means to cool said superconductive layer.

8. The craft of Claim 6 further including means to cool said superconductive layer.

9. The craft of Claim 3 further including:
means to selectively lower the temperature of an area of said superconductive layer to the critical temperature of said superconductive layer for causing movement of said craft in a direction by interaction of that selected area of said superconductive layer with said earth's geomagnetic field.

10. The craft of Claim 7 further including an inner dam positioned to define a void between said dam and said superconductive layer.

11. The craft of Claim 8 further including an inner dam positioned to define a void between said dam and said superconductive layer.

12. The craft of Claim 10 wherein said inner dam is positioned concentric to said hollow spherical superconductive layer and wherein said means to cool said superconductive layer comprises liquid nitrogen entered into said void defined between said dam and said superconductive layer.

13. The craft of Claim 11 wherein said inner dam is positioned concentric to said hollow spherical superconductive layer and wherein said means to cool said superconductive layer comprises liquid nitrogen entered into said void defined between said dam and said superconductive layer.

14. The craft of Claim 13 further including at least two electrical contacts positioned diametrically to one another on said superconductive layer for passing an electrical current between said contacts to create said means for motive force at right angles to the direction of such current according to the right-hand motor rule.

15. The craft of Claim 14 wherein said inner dam has a hollow central area defined therein.

16. The craft of Claim 15 further including a lighter-than-air gas disposed within said hollow central area.

17. The craft of Claim 7 further including a metallized coating disposed on said sphere of insulative substrate and superconductive layer.

18. The craft of Claim 8 further including a metallized coating disposed on said sphere of lightweight insulative substrate and superconductive layer.

19. The craft of Claim 7 further including at least one balloon-like layer surrounding said sphere of insulative substrate and superconductive layer.

20. The craft of Claim 19 wherein said balloon-like layer is reflective.

21. The craft of Claim 3 wherein said superconductive layer is in the form of superconductive fibers embedded in said insulative substrate.

22. The craft of Claim 4 wherein said superconductive layer is in the form of superconductive fibers embedded in said insulative substrate.